

FOLIO

UNIVERSITY OF ALBERTA
31 MARCH 1995



INSIDE

- Greg Taylor probes toxic effects of aluminum on plants (p 2)
- 'Focus on Faculties' - Graduate Studies and Research (p 5)

Faculty Agreement: negotiations continue

By Michael Robb

Members of the Association of Academic Staff have turned down a motion that would have directed the AAS:UA negotiating team on the Agreement Review Committee not to propose or agree to any changes in their Faculty Agreement that would allow involuntary termination of tenure-track staff who are performing their duties satisfactorily.

The motion was defeated at a packed special general meeting, 23 March, in Tory Turtle.

AAS:UA President Ann McDougall said what the defeat of the motion does is tell the AAS:UA negotiating team to continue to negotiate with the University to get the best possible deal. She was cautious about reading too much into the motion.

The motion was put forward by Psychology Professors Doug Wahlsten and Frank Epling. The AAS:UA received a petition from a group of its members calling for a special general meeting. The organization's bylaws require that such a meeting must be called within three weeks of receiving the petition.

The issue certainly isn't settled, Dr Wahlsten said earlier this week. "We'll be calling on people to reject changes to the Faculty Agreement if those changes don't protect academic freedom. It distresses me that people are not prepared to fight with the tenacity it will take to protect academic freedom."

Late last fall, the provincial government directed postsecondary institutions to examine and, if necessary, renegotiate collective agreements by 1 March 1995, to ensure that they have the flexibility to terminate academic staff, with appropriate compensation, in cases of program redundancy or financial exigency. At the time, Jack Ady, Minister of Advanced Education and Career Development, said academic freedom would continue to be an essential part of the province's postsecondary education system.

"We're still at the table with the administration," Dr McDougall said. "We're close to agreement on [the issue of] financial emergency and still negotiating vigorously on [the issue of] redundancy."

"I appreciate the fact that so many people turned out for the special general meeting. [The room seats more than 400 people.] They're aware of the urgency of the situation and this should stimulate a greater awareness of the issues."

Dr Wahlsten said academics are under considerable pressure from the provincial government, and people are motivated by the fear of what the government will do in the event a settlement is not reached.

People have to realize that the University of Alberta is competing for faculty in an international market, and if those young academics hear that tenure is under attack here, it will be more difficult to attract them to campus, Dr Wahlsten said.



Photo Services

Locks about to be lost

Greg Badger, with clippers, and other members of the CIAU champion Golden Bears get ready to give coach Don Horwood the buzzness. Although the players delighted a large crowd in SUB last week with their tonsorial talents, Horwood was heard to mutter, "I hope you guys all get college degrees 'cause you'll never be barbers."

Opera and disease among topics at Royal Society Regional Symposium

By Sandra Halme

A wife and husband team from the University of Toronto, whose soon-to-be published book on diseases found as central themes in opera, are among those scheduled to speak at the third annual University of Alberta Symposium of the Royal Society of Canada, today in the Humanities Centre.

Linda Hutcheon, a professor of English and comparative literature and one of Canada's foremost literary theorists, along with her husband, Michael Hutcheon, a professor of medicine, will discuss "Smoke Gets in Your Sighs: Sexuality, Violence and Smoking in the Opera". Their presentation (11 am-noon, L-1 Humanities Centre) will explore how 19th century opera represents diseases and culture of the times.

The symposium, jointly organized by Royal Society Fellows and Deans Patricia Clements (Arts) and Dick Peter (Science), will also bring the Federal Minister of Natural Resources back to her home campus to speak. The Hon. Anne McLellan will address the issue of "The future of Canadian universities" (2-3 pm, L-1 Humanities Centre).

Fellows of the Royal Society who will deliver presentations include Ernest Kanasewich, (Physics), "Imaging the Subsur-

face of the Earth for Basic Research and for Environmental Applications"; Shirley Neuman (English), "The Autobiographical 'I' - Who's There Anyway"; and Robert Haynes, Royal Society of Canada President, York University, "National Academies".

The symposium is expected to attract 30-40 Royal Society Fellows from Alberta and Saskatchewan. Presidents from Academies II (Social Sciences and Humanities) and III (Science and Engineering) will also attend.



Anne McLellan, Minister of Natural Resources

Photo Services

Curtain up at Timms Centre

It's show time—time to see the show and time to show your pride! The spotlight shines on the opening of the Timms Centre for the Arts. A glittering gala kicks off a week of opening celebrations for this grand, new theatre arts centre. See you there!

30, 31 March, 1 April

Gala Opening Nights: Community leaders and representatives from the federal, provincial and civic governments join University officials for opening celebrations, a reception, tours of Timms, and performances of "Ring Round the Moon."

3 April

Theatre and Drama Alumni Night: Community friends and Drama alumni celebrate the opening with brief speeches, tours, a reception and a performance of "Ring Round the Moon."

4 April

Building Trades Night: Barbecue, tours and a performance of "Ring Round the Moon" for the tradespeople who worked on the construction of Timms, and for their families. Barbecue is closed; tickets available for play only.

5 April

Faculty of Arts Night: The Dean has invited members of the Faculty to a ceremony, a performance of "Ring Round the Moon" and tours of Timms. This event is sold out.

8 April

Open House, 11 am - 5 pm: Tours, refreshments and entertainment.

All U of A faculty, staff and students are encouraged to help celebrate the opening of the Timms Centre for the Arts by attending any of the above events, subject to ticket availability.

"Ring Round the Moon" runs through 15 April. Curtain is at 7:30 pm all nights; curtain for the matinee performance on 6 April is 12:30 pm. For tickets, call Studio Theatre at 492-2495.

Studying the toxic effects of aluminum on plants

Greg Taylor (Biological Sciences) receives Faculty of Science Research Award

By Michael Robb

Aluminum is the third most abundant element in the Earth's crust. It's easily extracted from bauxite and used in a multitude of household appliances and high-tech machines.

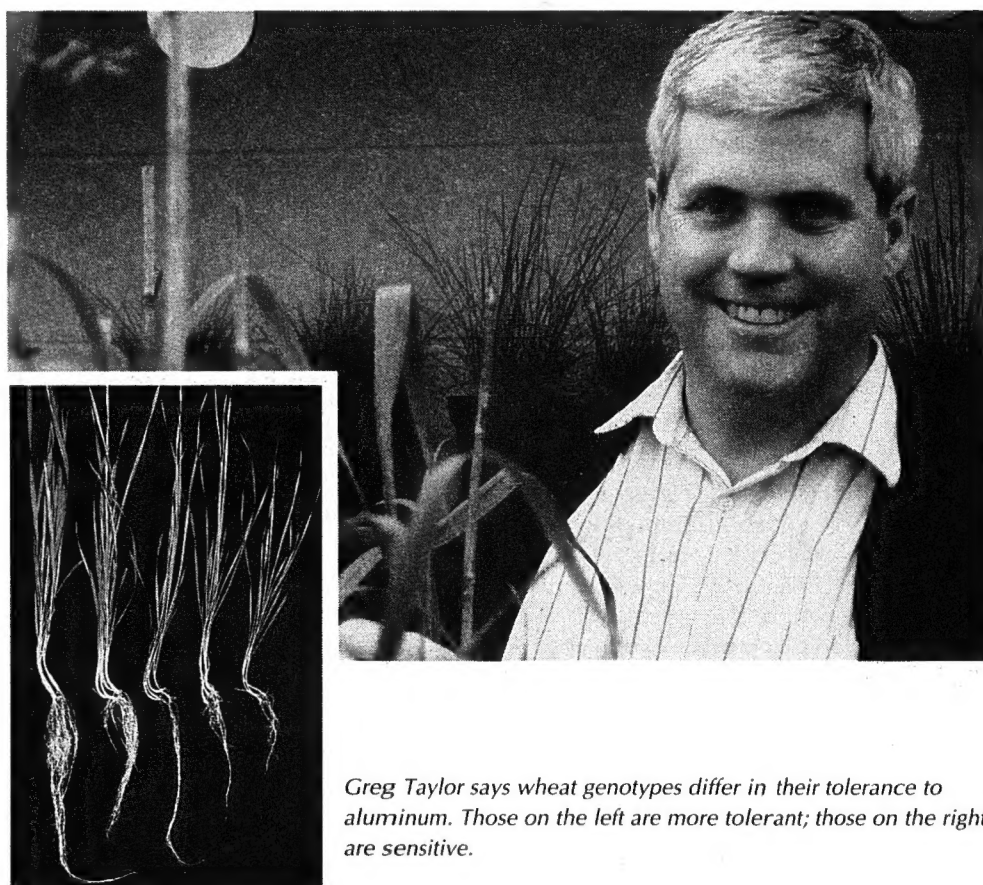
Although we've learned how to exploit it for commercial purposes, we know considerably less about how this common metal affects plants.

Aluminum is insoluble and harmless in most soils, but as pH declines it becomes soluble. Under acidic conditions, it's highly toxic to plants. The question, Does it find its way into the cytoplasm of living cells? is one frequently asked by Biological Sciences Professor Greg Taylor, this year's Faculty of Science Research Award recipient.

In an attempt to answer it, Dr Taylor and his research team have exposed several different genotypes of wheat to aluminum under controlled conditions. Some were largely unaffected, while others virtually stopped growing. "We don't really have a good idea of what makes one tolerant and the other sensitive," he explains.

"What we do know, however, is that aluminum does all sorts of nasty things. It interrupts DNA synthesis and mitosis; inhibits cell elongation; and disrupts a variety of cellular enzyme and membrane transport systems.

"Ultimately, if we're going to have a good idea of what causes these growth effects, we need to know whether aluminum is crossing the membrane [which protects



Greg Taylor says wheat genotypes differ in their tolerance to aluminum. Those on the left are more tolerant; those on the right are sensitive.

the metabolic processes going on within]. That's really where we've focused our work. Is the tolerant genotype capable of restricting the movement of aluminum across its membrane, thereby protecting the cytoplasm? If so, what kinds of mechanisms might be involved?"

While these seem like fairly simple questions to answer, countless researchers have found out the hard way that aluminum is an extremely difficult element to work with and control.

Despite the problems associated with working with aluminum, the team has de-

veloped techniques to prove that certain genotypes do absorb aluminum at differing rates, and that the distribution of aluminum within plant cells varies between tolerant and sensitive genotypes. "The key to this research is the use of new techniques that have allowed us to work with very small tissue samples, very low concentrations of aluminum and very short periods of time, allowing us to see things others couldn't."

The team, which includes postdoctoral fellows, graduate students and visiting scientists, is about to embark on a new phase in the research. Using giant algal cells, a

rare radioactive isotope of aluminum and a new technique called accelerator mass spectroscopy, the team is optimistic it will be able to provide the first direct measure of aluminum in the cytoplasm of plant cells, an objective which has eluded scientists since aluminum research began more than 100 years ago.

The research is, in essence, curiosity-driven and basic. But there's an applied side. It's been estimated that almost 40 percent of the world's arable lands are acidic. Furthermore, soil acidification is increasing as a result of acid precipitation and farming practices. Not surprisingly, farmers growing crops on acidic soils are interested in the work.

"I'm not suggesting that what we're doing is going to get to the farmer in a hurry, although we are collaborating with Keith Briggs (Agriculture, Food and Nutritional Science) to develop aluminum-tolerant lines of wheat," Dr Taylor says. "If, however, we can make major breakthroughs in our understanding of the biology of the toxic effect of aluminum and the tolerance that some genotypes display, it will have a tremendous impact on agriculture."

Scientists working in areas where forests are dying—such as eastern North America and Europe—are also interested in aluminum. Some speculate that widespread forest decline may be related to the toxic effects of aluminum in acidic soils. "If we can measure aluminum uptake across the membrane, we may be able to answer some of their questions."

Dr Taylor became interested in metals in an environmental context while studying the impact that metal emissions in the Sudbury area were having on surrounding soils and plants. Since then, his work has been consistently funded by the Natural Sciences and Engineering Research Council. He's not alone; it's an international effort. Dr Taylor has continued to collaborate with his former postdoctoral supervisor, Charles Foy, at the US Department of Agriculture's Plant Stress Laboratory, as well as with other scientists in the US, Germany and Australia.

FOLIO

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Public Affairs produces *Folio* on a regular basis for employees and volunteers at the University of Alberta.

Folio's mandate is to serve as a credible news source internal audiences by communication accurate and timely information about issues, programs, people and events.

DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 40 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Call 492-0436 for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be printed with acknowledgment.

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Pearson heading east to Western

Appointed Dean of Education

By Folio staff

After more than 25 years at the University of Alberta, Department of Educational Policy Studies Chair Allen Pearson is leaving.

Dr Pearson, who began his career here as an assistant professor of educational foundations in 1969, will become the next Dean of the Faculty of Education at the University of Western Ontario.

He says he could have easily finished his career at the U of A, but the Western offer was attractive. "There are a number of

exciting developments in education going on in Ontario. My reasons for leaving are mostly personal; change is what I needed."

Dr Pearson said he has had terrific support from faculty and students, he's made many friends and he's had many interesting experiences here at the U of A. "This is a very stimulating place to be." And, he says, even though faculty in Education have been under a great deal of stress during the past two years, the Faculty still has a great future.

Trying to make sense of events in Russia

Stanford University visitor will deliver several talks

By Michael Robb

If you're like most people, you're having some difficulty sorting out events in Russia. The Department of History and Classics wants to help.

The department is playing host to a senior fellow at the Hoover Institution at Stanford University, John Dunlop, the author of the highly acclaimed book, *The Rise of Russia and the Fall of the Soviet Union*, pub-

lished by Princeton University Press in 1993.

Dr Dunlop, who is here from 26 March to 8 April, is an expert on contemporary Russian history, nationalism, cultural politics and the culture of religion. He will deliver several lectures on and off campus. On 7 April, he will deliver his final lecture on the development of Russian nationalism in the 20th century, in 2-58 Tory Building, at 3 pm.

SELECTION COMMITTEE FOR DEAN, FACULTY OF EXTENSION

A Selection Committee for Dean of the Faculty of Extension is being established.

The GFC Nominating Committee requires for this committee *four (4) persons (Categories A1.0, A2.0, A3.0, B1.1, B1.2), or persons who are neither students nor employees of the University, elected by GFC. One (1) of the four persons elected by GFC shall be a Department Chair from outside the Faculty of Extension. For staff category definitions, see Section 5 of the GFC Policy Manual. In brief, the above-noted categories include full-time, continuing (tenure-track and soft-tenure-track) faculty, temporary and trust employees, and continuing support staff. If you have any questions regarding the categories of staff and/or eligibility to serve on this committee, contact V Pemberton-Piggott, Coordinator, GFC Nominating Committee, 2-5 University Hall, 492-1938.*

If you wish to submit a nomination, please forward a letter of nomination and brief biographical sketch to Ms Pemberton-Piggott at the above-noted address by 10 April.



**University
of
Alberta**

FACULTY OF ARTS 1993-94 McCALLA PROFESSORSHIP PRESENTATIONS

**Thursday, 6 April, 3:30 - 5 pm
L-4 Humanities Centre**

Patricia Demers (English), "Hannah More"

Francis Landy (Comparative Studies of Literature, Film and Religion), "Metaphors, Mysticism and Misogyny: A Reader Response Commentary on Hosea"

Patricia Prestwich (History and Classics), "Parisian Psychiatric Hospital 1867 - 1914"

Fred Radford (English), "The Cubistic City: James Joyce's Modernist Discourse and the 'Real' World"

Reception at 5 pm in 6-40 Humanities Centre. All are welcome

President joins 'Team Alberta' trip to Texas

By Folio staff

President Rod Fraser joined Premier Ralph Klein and more than 30 Alberta executives representing the province's energy and petrochemical industries in a recent economic mission to Texas.

"Our two economies have a number of things in common," says Dr Fraser. "The similarities include energy, agriculture, advanced technology, and health care research."

The three-day trip provided the President with a chance to explore partnership and research opportunities with members of the Alberta contingent and with Houston-based industries and institutions.

One of Dr Fraser's visits was to the University of Texas, M.D. Anderson Cancer Center, to meet with Albert Disseroth, Chair of the Department of Hematology. Dr Disseroth is noted for his work in gene therapy for ovarian cancer patients. The

UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER

- 40,000 cancer patients served each year
- More than \$60M in clinical and basic research last year
- First in research investment among Texas public health institutions
- 70 percent of patients from Texas, 30 percent other USA, 5 percent other countries

cancer centre is first in research investment among Texas's public health institutions and concentrates its efforts on patient care, research, education and prevention.

Dr Fraser accompanied Premier Klein and Arthur Smith, co-chair, Alberta Economic Development Authority, on their

visit to see Dr Disseroth and explore biomedical and health care partnership opportunities.

"There are possibilities to forge research and investment partnerships," says Dr Fraser. "We need to take the time to explore all the opportunities available to us to encourage linkages between our areas of strength, and those of other institutions in the United States and other countries around the world."

The M.D. Anderson Cancer Center is one of 40 institutions belonging to the Texas Medical Center in Houston. The Texas Medical Center claims to be the largest health care centre of its kind in the world, with nearly 55,000 part- and full-time employees.

Dr Fraser says he'll follow up his visit with meetings with the Dean of Medicine, Dr Lorne Tyrrell.

U of A urged to reach out

By Peace River Record-Gazette staff

Local educators recently asked a visiting delegation from the University of Alberta Senate to recommend the University look into expanding its links with the Peace Country.

Representatives from Peace region colleges and school boards told the delegation that increased use of tele-video and other technology would help students who can't move to Edmonton, for varying reasons, gain access to U of A programs.

McLennan resident and Senate member Etienne Johnson responded that the idea of offering courses via tele-video, a sort of video telephone, was one of the things he would like to see connect the University to the Peace Country.

Other Senate members in attendance said the University and stakeholders in the Peace Country would have to purchase the same technology and ensure the communication link between the two was solid before anything concrete could be done.

The Senate was in Peace River on 22 March to get input on the role of the University in northern Alberta.

High Level Bridge closing for repairs

By Folio staff

The High Level Bridge will be closed to all traffic, including pedestrians and cyclists, for seven months, beginning 16 April.

During this time, workers will repair the deteriorated sections of the bridge, including the upper and underdeck and the concrete support piers.

A detour strategy, including upgrading of existing facilities and some new construction, has been prepared to make alternate routes such as the D.B. Menzies LRT Bridge and Walterdale Bridge available to cyclists and pedestrians. From the south side, the LRT Bridge can be reached from the river valley trails, with access points at 109 Street and 88 Avenue, the easterly termination of 90 Avenue, or at Saskatchewan Drive and 111 Street. On the north side of the river, cyclists and pedestrians may choose to use Fortway Drive, or the new set of stairs (with bike gutters) to be constructed from the Royal Glenora Club to Ezio Faraone Park.

At the Walterdale Bridge (south side), the river valley trail starting at 109 Street and 90 Avenue provides a route past the

Kinsmen Sports Centre and under the Walterdale Bridge, with a loop connecting to the widened east sidewalk. A multi-use path will be constructed at Fort Hill Road, south of Saskatchewan Drive, to the Walterdale Bridge. To get to this route, people must travel on 106 Street or 107 Street, and follow the lanes leading to Fort Hill Road at approximately 106 A Street. This route is quite steep. Alternatively, stairs (with a bike gutter) leading to Queen Elizabeth Pool, are available at 105 Street at Saskatchewan Drive.

Walterdale Bridge's east sidewalk will be widened and designated for use by both cyclists and pedestrians. A Class I bikeway (wide sidewalk) will be constructed along Rosedale Road from the bridge to 96 Avenue.

Crosswalks at 88 Avenue and 109 Street will be closed, and pedestrians and cyclists will be detoured to the crossing at 87 Avenue and 109 Street. The traffic signals will be in operation at this intersection, and two-way traffic will be permitted on Walterdale Hill.

Jay Krushell leads new GSA executive

By Ron Thomas

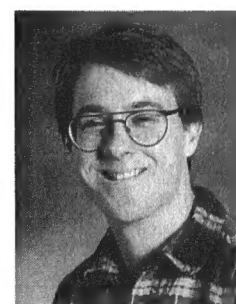
Jay Krushell (joint MBA/LLB program) is the new President of the Graduate Students' Association for 1995-96.

Joining him on the executive team, which officially takes office 1 April, are: Amit Monga (Mechanical Engineering), Executive Vice-President; Gordon Squirell (Business, MBA/Law), VP Financial Services; Monika Lozinska (Slavic and East European Studies), VP Academic; Robert Hatchard (Mechanical Engineering), VP Student Services; and Gordon Harris (Business, MBA), VP Communications.

All are first-time executive members, although Monga and Lozinska have served on a number of GSA committees and helped develop policy. "That's [their newness] actually good because of the energy and new ideas and perspectives on things,"

Krushell says. He himself has been involved with the association for the last year and a half. "I'm writing letters, making contacts, getting involved ... it's really taking off."

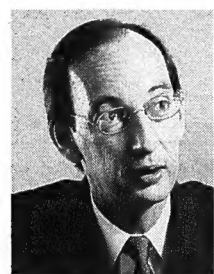
The executive's primary objective, he says, is to market the GSA and the accomplishments of graduate students. "They are an important component of the University of Alberta and the work they do is of value." Krushell hints at the possible publication of a document along the lines of *Research Makes Sense*.



Jay Krushell, new President of the GSA

Deutsche Bank VP delivering Foote Lecture

By Sandra Halme



Kenneth S. Courtis

Kenneth S. Courtis, first vice-president of Deutsche Bank Capital Markets, Asia, the investment banking arm of Europe's largest financial institution, the Deutsche Bank Group, will deliver the 1995 Eldon Foote Lecture in International Business.

Dr Courtis' lecture—"Canada in a World of Change: Implications and Perspectives"—will be presented on Tuesday, 4 April, at 3:30 at the Faculty Club.

Dr Courtis is the strategist and senior economist for the Deutsche Bank Capital Markets, Asia, and conducts economics and policy research as well as investment and strategic analysis for the Group. He lectures and publishes widely on the related fields of international finance, macro-economic policy, global capital markets and strategy.

A member of several professional associations, Dr Courtis serves on the International Research Council of the Centre for

International Strategic Studies in Washington and is a member of the Advisory Boards of both the International MBA program at York University and the Economic Strategy Institute in Washington.

Dr Courtis received his undergraduate degree from Glendon College in Toronto and his master's from Sussex University in England. He obtained an MBA at INSEAD (European Institute of Business Administration) and a PhD from the Institute of Economic and Political Studies in Paris.

This International Business Lecture was established by Eldon Foote who created the Eldon Foote Endowment in International Business and Law to reflect his commitment and support for future generations of aspiring lawyers and business graduates.

A native Albertan, Foote received his BSc and LLB from the University of Alberta. He practised law in Edmonton and was appointed Queen's Counsel in 1965. He later acquired the HomCare franchise for Japan and has since established manufacturing and marketing operations in Japan, Hong Kong, and the Republic of Korea.

Folio changes publication schedule

Beginning 7 April, *Folio* will publish every two weeks during the academic year.

With decreased resources and increasing paper and production costs, the Office of Public Affairs has elected to reduce the number of issues of *Folio* from 34 to 20 per year, much the same as its sister publications at UBC, McGill and the University of Toronto.

The number of pages per issue will rise from eight to at least 12.

Just as the University of Alberta aspires to become the "leading Canadian university in a select number of teaching and research areas", *Folio* aspires to become one of the leading Canadian university newspapers. In fact, we have set that as a goal.

The change in the number of issues means more time for story and series development, research, interviewing, writing and editing. The result, we believe, will be a publication in which those who produce it, and those who read it, can take increased pride.

Folio welcomes your thoughts and comments on this initiative or on any other matters pertaining to the publication.

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

4 April, 4 pm

Anthony Amin, postdoctoral fellow, Memorial Sloan-Kettering Cancer Center, New York, "DNA Replication and the Involvement of Replication Proteins in Checkpoint Control." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

5 April, noon

Raymond Kent, professor, Department of Communicative Disorders, University of Wisconsin-Madison, "The Place of Infant Vocalizations in Phonological Development and Clinical Assessment." Host: Rehabilitation Research Centre. 2-07 Corbett Hall.

6 April, 10:30 am

Dr Kent, "Neurogenic Speech Disorders: Prospects for a New Synthesis." Host: Rehabilitation Research Centre. 3-26 Corbett Hall.

ANATOMY AND CELL BIOLOGY

5 April, noon

Barbar Pustowoit, professor, University of Leipzig, "Rubella-Peptide E1A and Immunoblot as Diagnostic Test Systems for Identification of Recent Rubella Infection." 5-10 Medical Sciences Building.

ANTHROPOLOGY

7 April, 3 pm

Nancy Gibson and Tom Grauman, Royal Alexandra Hospital, "Traditional Healers in the Health Care System: Examples from Canada and Sierra Leone." 14-28 Tory Building.

BIOETHICS

6 April, 3:30 pm

Glenn Griener, "Feeding and Futility: The Growing Acceptance of Euthanasia." 2-27 Bioethics Centre.

CANADIAN INSTITUTE OF UKRAINIAN STUDIES

7 April, 7:30 pm

Valerii Polkovsky, Department of Business English, Ternopil Academy of the National Economy, "Problems in Humanitarian Education in Contemporary Ukraine" (in Ukrainian). Heritage Lounge, Athabasca Hall.

CENTRE FOR INTERNATIONAL BUSINESS STUDIES

4 April, 3:30 pm

Eldon Foote Lecture in International Business. Kenneth S Courtis, First Vice-President, Deutsche Bank Capital Markets, Asia, "Canada in a World of Change: Implications and Perspectives." Registration: 492-2235. Faculty Club.

CHEMICAL ENGINEERING

6 April, 3:30 pm

S Kolaczowski, School of Chemical Engineering, University of Bath, "Challenges Faced in the Design of Low Nox Catalytic Radiant Heaters." 342 Chemical-Mineral Engineering Building.

CHEMISTRY (75TH CHEMICAL SOCIETY OF CANADA CONFERENCE)

10 April, 11 am

Alfred Bader, co-founder of the Aldrich Chemical Company and an internationally known collector of 17th century Dutch and Flemish paintings, "Josef Loschmidt - The Father of Molecular Modeling." V-107 Chemistry-Physics Lecture Wing.

10 April, 8 pm

Dr Bader, "The Adventures of a Chemist-Collector." Edmonton Art Gallery.

11 April, 11 am

Dr Bader, "History of the Aldrich Chemical Co." V-107.

TALKS

11 April, 7:30 pm

Dr Bader, "The Bible Through Dutch Eyes (Rembrandt and the Jews)." The King's University College.

Cosponsors: Edmonton Section of the Canadian Society for Chemistry and the Edmonton Art Gallery.

COMPARATIVE ANIMAL PHYSIOLOGY AND CELL BIOLOGY

4 April, 12:30 pm

Ann Cui, "Changes in Opioid Content and Receptor Binding in the Central Nervous System During Hibernation." G-114 Biological Sciences Centre.

COMPUTING SCIENCE

10 April, 3:30 pm

Nicholas Pippenger, Computer Science Department, University of British Columbia, "Communications Switching Networks: Old and New Problems." 2104 Dentistry-Pharmacy Centre.

DENTISTRY

1 April, 8:30 am

Sue Herring, AHFMR Visiting Lecturer, Department of Orthodontics, University of Washington, Seattle, "Jaw Muscles: How They Strain the Skull." 4069 Dentistry-Pharmacy Centre.

ENGLISH

4 April, 3:30 pm

David Albahari, internationally acclaimed writer from Yugoslavia, and Ven Begamudré, prize-winning writer and broadcaster from Regina, will read from their works. L-3 Humanities Centre.

ENTOMOLOGY

6 April, 4 pm

Susan Bjornson, "The Good, The Bad and The Infected. Part II: A Fistful of Protozoa." TB-W1 Tory Breezeway.

GEOGRAPHY

31 March, 3 pm

Peter Crown and Tim Martin, "The Spatial Information System and Laboratory." 3-36 Tory Building.

7 April, 3 pm

David Flower, "Almost Eden After All: Dryland Farming in Southern Alberta in the Forties and Fifties." 3-36 Tory Building.

GEOLOGY

6 April, 11 am

Hairuo Qing, Geological Survey of Canada, Calgary, "Formation of Coarse-Crystalline, Hydrothermal Dolomite in the Presqu'île Barrier, Evidence from Diagenetic Paragenesis, Th of Dolomite Inclusions, O, Sr, and H Isotopic Data." 1-04 Earth Sciences Centre.

HISTORY AND CLASSICS, POLITICAL SCIENCE, SLAVIC AND EAST EUROPEAN STUDIES

31 March, 2 pm

Holger Herwig, chair, Department of History, University of Calgary, "Clio Deceived: The Use and Abuse of History in the Weimar Republic." Senate Chamber, Arts Building.

4 April, 3 pm

John Dunlop, senior fellow, Hoover Institution, Stanford University, "Russia and the Crisis in Chechnya." 10-4 Tory Building.

7 April, 3 pm

Professor Dunlop, "The Development of Russian Nationalism in the 20th Century." 2-58 Tory Building.

HUMAN ECOLOGY

4 April, 12:30 pm

Dianne Kieren, "Choices and Changes: Women and Midlife." 357 Assiniboia Hall.

4 April, 3:30 pm

Issues in the North. Marc Stevenson, "Incorporating Inuit Ecological Knowledge into the Design of the Nunavut Harvest Study." Main Floor Chapel, St Stephen's College.

6 April, 1 pm

Kerri Maguire, "Starch Paste and Indigo Dye: African-Inspired Contemporary Surface Designs." 131 Home Economics Building.

LAW

5 April, noon

Roderick MacDonald, McGill, "The False Promise of Alternative Dispute Resolution." Faculty Lounge, 4th Floor, Law Centre.

LIMNOLOGY AND FISHERIES

DISCUSSION GROUP

6 April, 12:35 pm

Garry Scrimgeour, "Nutrient Limitation in a Northern Alberta River: An Experimental Approach." G-116 Biological Sciences Centre.

PERINATAL RESEARCH CENTRE

4 April, noon

Janice Lander, "Large Group Versus Single Case Experimental Research: Is There a Place for Single Subject Research in Perinatology?" 2J4.02 Mackenzie Health Sciences Centre.

PETER JACYK CENTRE FOR UKRAINIAN HISTORICAL RESEARCH

5 April, 3:30 pm

Mykhailo Molchanov, "The Residual Totalitarian Mentality and the Transition to Democracy in Ukraine." 352 Athabasca Hall.

PHILOSOPHY

6 April, 3:30 pm

Tim Dare, University of Auckland, "Exclusive Legal Positivism: The Argument from Authority." 4-29 Humanities Centre.

PHYSIOLOGY

7 April, 3:30 pm

Ken Hutchinson, "Dopplar Spectral Shape in the Diagnosis of Carotid Artery Disease." 207 Heritage Medical Research Centre.

11 April, 3 pm

Orest Blaschuk, Department of Surgery, McGill University, "Estrogens, Cadherins and Cancer: Is There a Connection?" 207 Heritage Medical Research Centre.

PSYCHOLOGY

7 April, 1 pm

Don Mabbott, "Multiplication Skills in Normal and Learning-Disabled Children." P-218 Biological Sciences Centre.

RENEWABLE RESOURCES

6 April, 12:30 pm

Andrew Hammermeister, "Fly Ash: Waste By-Product or Wonder Dust?" 2-36 Earth Sciences Building.

RURAL ECONOMY

3 April, 3:15 pm

Frank S Novak, "Environmental and Financial Sustainability of Forest Management Practices." 519 General Services Building.

SLAVIC AND EAST EUROPEAN STUDIES

12 April, 3 pm

Mikhail V Dmitriev, Faculty of History, Moscow State University (Stuart Ramsay Tompkins Visiting Professor), "The Role of Orthodoxy in Russian History: Attempt at an Interpretation." 436 Arts Building.

SOCIOLOGY

5 April, noon

Gordon Laxer, "Rethinking Nationalism in the Global Economy." 5-15 Tory Building.

12 April, noon

P Krishnan, "Some Sociological Applications of the Input-Output Model." 5-15 Tory Building.

U OF A SHASTRI COMMITTEE


3 April, 3 pm

OP Juneja, professor of English, and director of Canadian Studies Centre, University of Baroda, and president, Indian Association of Canadian Studies, "Postmodernism, Indian Literatures, and 'The Mahabharata'." TB-W2 Tory Breezeway.

ZOOLOGY

7 April, 3:30 pm

Peter Wainwright, Department of Biological Sciences, Florida State University, "Evolution of Major Functional Novelities: Inflation Behavior in Pufferfish." M-149 Biological Sciences Centre.

 This symbol denotes environmentally-related seminars/events.

THE FACULTY OF LAW INVITES YOU TO ATTEND

The Weir Memorial Lecture

Decommissioning Law Reform: Whose Law? Whose Reform?

delivered by

Roderick A. MacDonald

*FR Scott Professor of Constitutional and Public Law
McGill University*

Wednesday, April 5, 1995

7:30 pm

Room 237, Law Centre

Sponsored by the Legal Forum

Reception to follow: Faculty Lounge, Fourth Floor, Law Centre

FOCUS ON Faculties

Graduate Studies and Research

Thirteenth part of a 16-part series on the University of Alberta's Faculties.

Next: Faculty of Extension

FACULTY FACTS

Mission: Primarily responsible for general administration of graduate programs, approving applications for admission and programs of study, for certifying the satisfactory completion of students' programs, maintaining student records and administering graduate awards

History: Graduate programs at the U of A have been offered since 1908; the present Faculty of Graduate Studies and Research structure was adopted in 1957

Offers: Doctoral, Master's degree programs and postgraduate diploma programs

Leadership: Dean Murray Gray; Associate Deans Terry Davis, Helmy Sherif and Regula Qureshi

1994-95 ENROLLMENT

Fulltime	3,109
Parttime	1,279
Total	4,388

Female	2,117
Male	2,271

Cdn/per res foreign	3,635
	753

Doctoral	1,776
Master's	2,416
Other	196

1994-95 FGSR-ADMINISTERED GRADUATE STUDENT SUPPORT

Research assistantships, U of A PhD scholarships, dissertation, Walter Johns, etc.
• \$5.8 million

Scholarships through endowments
• \$1.3 million

Killam Endowment
• \$692,000

Recruiting excellent faculty key to sustaining excellent grad programs — Murray Gray

Graduate Studies enrollment drops slightly over last year

By Michael Robb

Officials in the Faculty of Graduate Studies and Research like what they're hearing from their colleagues who reside one floor up in University Hall. Recruiting excellent faculty is going to be a top priority, say this University's senior administrators.

That's exactly what Faculty of Graduate Studies and Research senior administrators want to hear. They know excellent faculty recruit excellent graduate students.

Dean Murray Gray says there's a clear link between having leading faculty members in a given field and the University of Alberta's ability to recruit good graduate students. "Money is a factor, but it's no good if you don't have excellent faculty members," he says, pointing out that newly installed president Rod Fraser has emphasized the importance of faculty renewal and recruiting outstanding graduate and undergraduate students.

"Those three are interlinked and all of the other resource issues, such as external funding, take care of themselves if you take care of these three."

"Recruiting excellent scholars and researchers is not, however, within the Faculty's control," Associate Registrar Paul Pearlstone points out.

Nor are job prospects. A traditional job market for its graduate students was academe. Predictions of retirements have proven correct. However, publicly funded universities—caught in a spiral of declining budgets—haven't been able to find money to replace fully their academic retirees. This University is no exception.

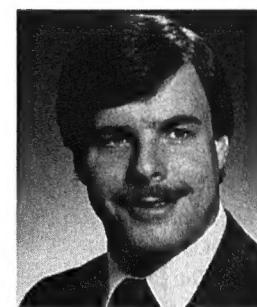
Increasingly, graduate studies is being viewed by students as a way of upgrading their skills and increasing their professional

competitiveness in the job market, explains Associate Dean Regula Qureshi. "It's too early to call it a trend, but we see that increasingly with the numbers of professionals who are coming back to graduate studies."

Students are also asking, What will graduate studies give us? "There's an increasing doubt about whether upgrading will hold its promise," Dr Qureshi says. Adds Dr Gray, Students are asking about career prospects; people are having doubts about enrolling in graduate programs.

The Dean also points out that the recent cuts in federal funding and pronouncements

to offer 60 \$13,000 PhD scholarships each year. It's proven to be a very effective recruitment tool, says Associate Dean Helmy Sherif. And admission offers can be made very quickly, points out Administra-



Murray Gray

tive Professional Officer Heather Hogg.

"This year, the departments are telling the Faculty that there is a drop in applications from Canadian students," the Dean explains. "Whether that's a long-term trend or a one-year blip, who knows. But that corresponds to a drop in applications for university programs in '95 nationwide." At the department level, graduate student admissions are down at this University by 20-25 percent.

Pearlstone points out that the differential fee for international students has had a strong impact on admissions.

During the early '90s graduate studies enjoyed steady growth. However, in September '94, the numbers dropped by about 250, counting part-time students, out of a total of about 4,300. Much of that drop was in Education, but other Faculties, with the exception of Medicine, did not increase their numbers.

Graduate Studies and Research officials acknowledge that an often-repeated question is: Should the University have a Faculty of Graduate Studies and Research? "That's a fair question," says the Dean. His response is that if it didn't exist, quality control would deteriorate, interdisciplinary research would be more difficult and the Faculty's role of mediator (between graduate students and professors) would be jeopardized.

The Faculty now has another role to play. Graduate programs are being reviewed within a five-year cycle. "We're learning as we go," Dr Gray says. A fourth program review of 12 scheduled for this year has just begun. Terms of reference for doing the job now exist.

"We're looking for excellence in graduate programs and in many cases that lines up with excellence in research," the Dean says.

PhD scholarships have proven to be a very effective recruitment tool

on tuition fees haven't helped encourage enrollment.

Funding for graduate students comes for two primary sources: the University and the federal granting councils, either directly through scholarships or indirectly through research grants to faculty members. "We've seen growth in national awards over the past five years," the Dean says. Unfortunately, the University hasn't got good data on how many graduate students are supported by trust funds, a source of funding that's expected to grow.

There is considerable pressure on departments to reduce their tutorial assistantship funds. And the Dean expects that they will be reduced in September '95 as well. On the positive side, the Faculty expects that in the long term it will be able

NATIONAL SCHOLARSHIPS AT THE UNIVERSITY OF ALBERTA

Year	NSERC	SSHRC	MRC	Tri-Council	NHRDP	Total
*94-95	141	66	17	4	12	240
93-94	160	60	17	5	10	247
92-93	137	55	16	1	7	216
91-92	109	47	15		5	176
90-91	104	45	13		5	167
89-90	113	37	14		4	169

*As of 93/12/13

Grad Studies developing tuition scholarships

The Faculty of Graduate Studies and Research is developing a scheme to make tuition scholarships available to its best graduate students.

Officials in the Faculty are hopeful the scheme, now under negotiation with the University, will be in place by 1996-97. "We're proposing to bring in most of this program after the University is through the current round of cuts," says Dean Murray Gray.

"If we bring in this scheme, we'll be well ahead of any other Canadian university," he says, pointing out that American

universities have adopted much more formalized systems of covering graduate student fees.

The Dean says developing tuition scholarships is a priority. Equally important, however, is the development of endowment funds to support graduate students. "It has to go hand in hand; tuition is only one part of it."

"The big problem for graduate students is that the tuition component of graduate programs has gone up for the last several years. The graduate student support system

was developed at a time when tuition was negligible."

Graduate students from inside the country pay about \$2,300 for tuition; international students will pay about twice that amount. The average tutorial assistantship is about \$7,000 a year, an amount that doesn't leave a lot for rent and food.

"That points to a problem," the Dean says. "It's clear that we're not dealing properly with tuition—and that's hurting us." Furthermore, a lot of faculty members are not aware of what tuition is costing graduate students.

POSITIONS



The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

ACADEMIC STAFF

CHAIR, DEPARTMENT OF MEDICAL MICROBIOLOGY AND INFECTIOUS DISEASES

The Department of Medical Microbiology and Infectious Diseases (MMID) in the Faculty of Medicine, University of Alberta, is seeking an outstanding individual with a record of achievement in scientific research, teaching, and academic administration to

Nominations invited for 3M Fellowships

The University of Alberta has received 12 awards during the nine-year existence of the national 3M Teaching Fellowships Program. In conjunction with the start of the 1995 competition, Bente Roed, Director, University Teaching Services (UTS), says, "We have many other outstanding instructors who warrant identification and nominations."

The Fellowships are awarded by the Society for Teaching and Learning in Higher Education and 3M Canada Inc. Any individual currently teaching at a Canadian university (regardless of discipline or level of appointment) is eligible.

An exclusive three-day (5-7 November 1995), all expenses paid, retreat at the Chateau Montebello is the main component of the award.

Up to 10 awards are given each year. Nomination forms are available from UTS, 215 Central Academic Building, telephone 492-2826. Dossiers are to reach the Society for Teaching and Learning in Higher Education, McMaster University, by 12 May 1995 but, if a letter from the Vice-President (Academic) is required, the nomination package must reach UTS by 3 May.

SELECTION COMMITTEE FOR DEAN, FACULTY OF PHYSICAL EDUCATION AND RECREATION

A Selection Committee for Dean of the Faculty of Physical Education and Recreation is being established.

The GFC Nominating Committee requires for this committee one (1) academic staff representative from Category A1.0, from outside the Faculty concerned, elected by GFC. For staff category definitions, see Section 5 of the GFC Policy manual. In brief, Category A1.0 includes full-time, continuing faculty (tenure-track and soft-tenure-track), Administrative Professional Officers, Faculty Service Officers, and Librarians. If you have any questions regarding the categories of staff and/or eligibility to serve on this committee, contact V Pemberton-Pigott, Coordinator, GFC Nominating Committee, 2-5 University Hall, 492-1938.

If you wish to submit a nomination, please forward a letter of nomination and brief biographical sketch to Ms Pemberton-Pigott at the above-noted address by 10 April.

chair the department. MMID encompasses an active clinical microbiology unit which complements a strong basic research program. The department consists of 16 full-time faculty and more than 40 graduate students. Approximately 35 faculty members from several clinical departments are also cross-appointed to MMID, and they contribute to a highly successful teaching program.

The research and teaching strengths of MMID will be further enhanced when the department merges with the existing Department of Immunology at the University of Alberta. The proposed merger has been approved by Faculty Council and is currently being considered by the appropriate University committees. The successful candidate for the Chair of MMID will be expected to lead the new unified Department of Medical Microbiology and Immunology, with combined full-time faculty of 20, including two Howard Hughes International Scholars, and more than 50 graduate students. The combined department will have strong research programs ranging from x-ray crystallography, through HIV biology and pathogenesis, to cytokines and intracellular signaling during T-cell activation.

The successful candidate will have a proven record of research productivity in the fields of immunology or medical microbiology, and have a strong commitment to excellence in both disciplines. This appointment will be at the rank of Full Professor with

salary commensurate with qualifications and experience. Applicants should reply by 30 April 1995, enclosing a *curriculum vitae* and the names and addresses of three referees, to: Dr D Lorne J Tyrrell, Dean, Faculty of Medicine, University of Alberta, 2J2 WC Mackenzie HSC, Edmonton, Alberta T6G 2R7

ADMINISTRATIVE PROFESSIONAL OFFICER, DEPARTMENT OF PEDIATRICS

The Department of Pediatrics invites applications for the position of Administrative Professional Officer.

The Department has 44 FT medical staff, 56 PT and 45 support staff. Annual budget is \$2 million, research \$2.4 million.

Reporting to the Chair, the APO is accountable for the planning, establishment and maintenance of an administrative support system to facilitate the research, clinical and teaching functions of the Department.

He/She will be responsible for the preparation and maintaining of budgets (operating, capital and research grants).

The APO also helps analyze the impact of changes in University, Faculty and Department policy. He/She coordinates the activities of support staff and otherwise assists the Chair in all matters conducive to the efficiency and harmony of the Department.

This position requires someone with intelligence, tact and initiative, capable of working effectively with the administration of both the University of Alberta and the

Capital Health Authority. The successful candidate should possess good computer skills, preferably an understanding of the Novel Network, and have considerable financial experience. Applicants should have a university degree and/or substantial administrative experience.

Applications, including *curriculum vitae* and the names of three referees, should be forwarded to: Dr Peter M Olley, Chair, Department of Pediatrics, 2C3.67 Walter Mackenzie Centre, University of Alberta, Edmonton, Alberta T6G 2R7

Deadline for applications: 21 April 1995.
Start date: 25 May 1995.

SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly *Employment Opportunities Bulletin*.

MANAGING EDITOR, CANADIAN JOURNAL OF REHABILITATION

Managing Editor required for *Canadian Journal of Rehabilitation*. Quarterly remuneration: negotiable.

If interested in this post, contact Neil Pierce, 424-6312 (secretary), or Dr Gary Wheeler, 492-7158. Fax 492-7161 for more information.



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MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. University inquiries welcome, 492-7044.

WEST END CONDO - Two bedrooms facing park. \$650/month, immediate possession. Western Relocation, 434-4629.

EXECUTIVE HOME - Fully furnished in Old Glenora. Easy access to University. September 1995 to April 1996. \$1,200/month. References requested. Telephone (403) 455-4830. Fax c/o 427-0699.

HOUSE WITH FIVE APPLIANCES, close to University and downtown. \$650/month. Available 1 May 1995. 433-5674.

WINDSOR PARK - 117 Street. Three bedroom bungalow for rent. Available 1 April. 481-6900.

GARNEAU CONDO - Immaculate, quiet. Two blocks south of U of A Hospitals. Living/dining room with fireplace, den with bay, two decks, two bedrooms, kitchen with eating area. Rent \$935, includes secured parking, heat, water, ensuite laundry. No pets. Call 431-1179.

HOUSE FOR RENT - Fully furnished. Double garage. Available 1 July. Contact Rico at 454-4565.

PETROLIA/GREENFIELD - Furnished bungalow, three bedrooms, fireplace, piano, sunny kitchen, finished basement. Close to schools, express bus to the University. 1 July 1995 - 30 June 1996. \$750/month. 434-4254 or 492-5330.

LUXURY LIFESTYLE FOR RENT - 9929 Saskatchewan Drive. View property. \$1,450/month. Available 1 May or sooner. 435-5028.

WANTING TO SHARE HOME in North Glenora with nonsmoking female. On bus

route to University. \$325 monthly includes utilities. Garage available. Call 452-0655.

APRIL TO JULY - Fully furnished three bedroom house on University avenue. Mature yard, old world charm. \$750/month. 438-7886 or 492-5731.

ROOMMATE REQUIRED for 1 May. Large sunny two bedroom in Old Strathcona. Call 439-7715.

FULLY FURNISHED three bedroom bungalow. Royal Gardens. Finished basement with fourth bedroom. Seven appliances. Piano. 1995-96 academic year. Suitable for visiting professor. Nonsmokers. \$850/month plus utilities. 435-9590.

AVAILABLE 1 MAY - Fully renovated one bedroom apartment. River valley view. Furnished or unfurnished. \$730/\$650/month. Pool, sauna, fully equipped exercise room. Seven minutes' walk to University. Nonsmokers only. Phone 424-2324.

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SHARED ACCOMMODATION - Mature, quiet, nonsmoker wanted to share house with female. Near university. \$280 plus utilities. 436-0894.

WINDSOR PARK - Three bedrooms plus den. Family room with fireplace, formal dining room, fully furnished. 1 July 1995 to 30 June 1996. \$1,300/month. Western Relocation Services Ltd. 434-4629.

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Kennedy, condo consultant/specialist, 25 years. Re/Max, 488-4000.

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WOODVALE TWO STOREY - 2,000 square feet, landscaped, three bedrooms, 2 1/2 baths. Many upgrades. Finished basement, 14-foot ceilings, marble tile throughout. \$169,000. 462-9773 or 492-5020.

UNIVERSITY AREA - Two storey, four bedrooms, hardwood floors, new paint, new roof, single garage. Could convert to three suites. Five minutes from U of A. Excellent investment - \$174,500. Please call Aspire Group Realty. 424-7157/437-0697.

CONDOMINIUM NEAR CAMPUS for sale by owner. Shows like new. Underground heated parking. 11178 83 Avenue. Garneau Mews. Call Nicole, 431-2852.

HOUSE FOR SALE - McKernan. 1,300 square foot two bedroom semi-bungalow. Bright open floor plan. South-facing backyard. Two bedroom basement suite rents for \$400/month. Five appliances. Two furnaces (one new). Skylight, deck. \$142,900. Phone Paul (owner), 436-0301.

SALTSPRING ISLAND - Spectacular forested lot. Half acre with brook and koi pond. Financing available. Sale by owner. \$89,900. Video available. 438-3579.

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Continued on page 8

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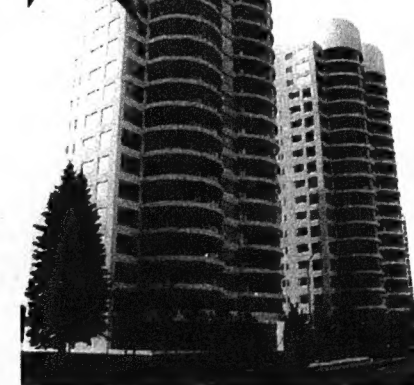
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Anne de Villars acts for families in Garneau and Old Strathcona. She helps clients get their affairs in order by preparing wills, enduring powers of attorney, advance directives, trust deeds, and dependent adult applications. Anne also does estate administration and estate dispute resolution, including litigation if necessary.

Anne has extensive experience in trust law. As counsel for the Alberta Law Reform Institute, she revised the rules of practice for the administration of estates and helped draft a plain language will precedent for Alberta law firms to use.

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